

Ohio Electric Implementation Guideline

For
Electronic Data Interchange

TRANSACTION SET

814

Enrollment Request and Response

Ver/Rel 004010

Summary of Changes

Version 1.0.0
May 1, 2001

Version 1.5.0
May 1, 2001

Version 2.0.0
December 31, 2001

Version 2.1.0
June 30, 2002

Version 2.2.0
October 1, 2005

Version 2.3.0
March 9, 2010

Version 2.4.0
February 14, 2012

Version 2.5.0
February 15, 2013

Initial Release

- Add rejection code for minimum stay account “not eligible to shop” per Change Control 4.
- Add code for budget billing per Change Control 5.
- Clarify usage of the AMT*RJ segment per Change Control 6.
- Remove the Summary pages (usually pages 2 and 3) from the implementation guides. These pages are automatically created by Foresight, but the last round of changes to the documents was done in Word and has not been updated in Foresight per Change Control 22.
- Add code for Government Aggregation per Change Control 26.
- Add new enrollment rejection reason code of C02 to Ref 7G to reject enrollments for end use customer accounts with EDU arrears in excess of Purchase of Receivables contractual limits
 - Added note to N1~8R segment to show AP validates on first 4 characters of customer name per change control 48.
 - Added gray boxes with conditions in the PER segment per change control 49.
 - Added text to title on N1, N3, N4, PER pages to show which N1 per change control 50
 - Updated REF~Q5 gray boxes to show SDID per change control 51
- Removed value ESP from REF*PC per change control 59.
- Modified REF02 and add REF03 line in REF*PG loop for FirstEnergy use only to insert coding for adding group aggregation code information per change control 65.
- During 3/3/10 meeting, the OSPO Data Working Group reviewed & confirmed EDI change controls up to and including CC67. All changes in the v2.2.0 redline were accepted and v2.3.0 created as the new baseline for Ohio.
- Added AEP as user of REF02 and REF03 in REP*PG segment as per EDI Change Control 68
- Added AMT*KC and AMT*KZ segments, update terms for each as per EDI Change Control 69.
- Incorporated AEP’s administrative changes as per EDI Change Control 70.
- Incorporated DP&L’s administrative changes as per EDI Change Control 71.
- Incorporated Duke Energy Ohio’s administrative changes as per EDI Change Control 72.
- Corrected gray box of REF*TZ as per EDI Change Control 74
- Removed SR and SW as applicable services in the LIN05. Removed SR and SW from ASI02 = 029 gray box. Removed W09 and W11 as applicable reject reason codes. All changes made as per EDI Change Control 76
- Added DP&L as user of REF02 and REF03 in REP*PG segment as per EDI Change Control 77.
- Added AEP as user of REF02 GAG in REF*PG segment as per EDI Change Control 78.
- Incorporated First Energy’s administrative changes as per EDI Change Control 81.
- Added Duke Energy Ohio support of government aggregation in the REF*PG as per EDI Change Control 90.
- Added Service Voltage and Loss Factor to the 814E as per EDI Change Control 91. Change Effective 5/25/2012 for First Energy companies only, not used by other EDUs
- Added four new codes to REF7G as per EDI Change Control 96.
- Added ‘UNE’ code to REF7G as per EDI Change Control 98.

Version 2.6.0
March 24, 2014

- Incorporated Change Control 103 Update (Add Net Meter Indicator)
- Incorporated Change Control 105 & 114 (REFLF & REFSV required by AEP & FE)
- Incorporate Change Control 109 (removal of A77 code in REF7G)

Version 2.6.1
February 13, 2015

- Incorporated Change Control 118 (REFSPL to optional)

814 General Request, Response or Confirmation

Functional Group ID=**GE**

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the General Request, Response or Confirmation Transaction Set (814) for use within the context of an Electronic Data Interchange (EDI) environment. This standard can be used to request actions to be performed, to respond to a request for actions to be performed or to confirm information related to actions performed.

Transaction Set Notes

1. The N1 loop is used to identify the transaction sender and receiver.
2. The N1 loop is used to identify the transaction sender and receiver.
3. The N1 loop is used to identify the transaction sender and receiver.
4. The N1 loop is used to identify the transaction sender and receiver.
5. The N1 loop is used to identify the transaction sender and receiver.
6. The N1 loop is used to identify the transaction sender and receiver.
7. The N1 loop is used to identify the transaction sender and receiver.
8. The NM1 loop is used to identify the parties associated with the individual line item (LIN), such as an individual consumer in a consolidated third party Consumer Service Provider transaction.

Segment: **ST** Transaction Set Header
Position: 010
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes: 1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:
Notes: Request: Required
Response: Required
ST~814~000000001

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M		143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set 814 General Request, Response or Confirmation	M ID 3/3
M		329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M AN 4/9

Segment: **BGN** Beginning Segment
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of a transaction set
Syntax Notes: 1 If BGN05 is present, then BGN04 is required.
Semantic Notes: 1 BGN02 is the transaction set reference number.
 2 BGN03 is the transaction set date.
 3 BGN04 is the transaction set time.
 4 BGN05 is the transaction set time qualifier.
 5 BGN06 is the transaction set reference number of a previously sent transaction affected by the current transaction.

Comments:

Notes: Request: Required
 Response: Required
 BGN~13~199904011956531~19990401
 BGN~11~199904020830531~19990401

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	BGN01	353	Transaction Set Purpose Code Code identifying purpose of transaction set 11 Response 13 Request	M ID 2/2
M	BGN02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier A unique transaction identification number assigned by the originator of this transaction. This number must be unique over all time. Transaction Reference numbers will only contain uppercase letters (A to Z) and digits (0 to 9). Note that punctuation (spaces, dashes, etc.) must be excluded.	M AN 1/30
M	BGN03	373	Date Date expressed as CCYYMMDD The transaction creation date - the date that the data was processed by the sender's application system.	M DT 8/8

Segment: **N1** Name (8S - EDU)
Position: 040
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: 1 At least one of N102 or N103 is required.
 2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
 2 N105 and N106 further define the type of entity in N101.
Notes: Request: Required
 Response: Required
 N1~8S~EDU COMPANY~1~007909411~~40

Data Element Summary

Ref.	Data Element	Name	Attributes
M	N101	98 Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual 8S Consumer Service Provider (CSP) EDU	M ID 2/3
M	N102	93 Name Free-form name EDU	X AN 1/60
M	N103	66 Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) 1 D-U-N-S Number, Dun & Bradstreet 9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix	X ID 1/2
M	N104	67 Identification Code Code identifying a party or other code EDU D-U-N-S Number or D-U-N-S + 4 Number	X AN 2/80
M	N106	98 Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual 40 Receiver 41 Submitter	O ID 2/3

Segment: **N1** Name (SJ - CRES)
Position: 040
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: 1 At least one of N102 or N103 is required.
 2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
 2 N105 and N106 further define the type of entity in N101.
Notes: Request: Required
 Response: Required
 N1~SJ~CRES COMPANY~9~007909411CRES~~40

Data Element Summary

Ref.	Data Element	Name	Attributes
M	N101	98 Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual SJ Service Provider CRES	M ID 2/3
M	N102	93 Name Free-form name CRES	X AN 1/60
M	N103	66 Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) 1 D-U-N-S Number, Dun & Bradstreet 9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix	X ID 1/2
M	N104	67 Identification Code Code identifying a party or other code CRES D-U-N-S Number or D-U-N-S + 4 Number	X AN 2/80
M	N106	98 Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual 40 Receiver 41 Submitter	O ID 2/3

Segment: **N1** Name (8R - Customer)
Position: 040
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: 1 At least one of N102 or N103 is required.
 2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
 2 N105 and N106 further define the type of entity in N101.
Notes: Request: Required
 Accept Response: Required
 Reject Response: Required unless rejected for invalid EDU account number.
 N1~8R~CUSTOMER NAME~92~STORE 73
 N1~8R~CUSTOMER NAME

Data Element Summary

Ref.	Data Element	Name	Attributes
M	N101	98 Entity Identifier Code	M ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual	
		8R Consumer Service Provider (CSP) Customer	
		Customer	
M	N102	93 Name	X AN 1/60
		Free-form name	
		Customer name as documented in the sender's application system.	
C	N103	66 Identification Code Qualifier	X ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)	
		Condition: Required if available.	
		92 Assigned by Buyer or Buyer's Agent	
C	N104	67 Identification Code	X AN 2/80
		Code identifying a party or other code	
		Store Number	
		Condition: Required when available.	

Segment: N3 Address Information (8R - Customer Service Address)
Position: 060
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:
Notes: Request: Optional
 CE Accept Response: Required for Customer Service Address
 All other Responses: Not Used
 N3~123 N MAIN ST~MS FLR 13

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	N301	166	Address Information	Address information Customer Service Address	M AN 1/55
C	N302	166	Address Information	Address information Customer Service Address Overflow Condition: If there is an overflow, it must be sent.	O AN 1/55

Segment: **N4 Geographic Location (8R - Customer Service Address)**
Position: 070
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 is required.
Semantic Notes:
Comments: 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
 2 N402 is required only if city name (N401) is in the U.S. or Canada.
Notes: CE Request: Optional
 CE Accept Response: Required for Customer Service Address
 All other Requests: Not Used
 All other Responses: Not Used
 N4~ANYTOWN~OH~19999~US~CO~COLUMBIA
 N4~ANYTOWN~OH~199990001~US~CO~54871
 N4~ANYTOWN~OH~19999~US
 N4~MISSISSAUGA~ON~L4W4E4~CA

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
M	N401	19	City Name	O AN 2/30
			Free-form text for city name	
M	N402	156	State or Province Code	O ID 2/2
			Code (Standard State/Province) as defined by appropriate government agency	
M	N403	116	Postal Code	O ID 3/15
			Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	
			Postal codes will only contain uppercase letters (A to Z) and digits (0 to 9). Note that punctuation (spaces, dashes, etc.) must be excluded.	
O	N404	26	Country Code	O ID 2/3
			Code identifying the country	
			For country codes not listed, please refer to ISO 3166.	
			US United States	
C	N405	309	Location Qualifier	X ID 1/2
			Code identifying type of location	
			Condition: Will be sent if it is in the EDU's system and is required for tax purposes.	
			CO County/Parish and State	
			Service Address County/Parish	
C	N406	310	Location Identifier	O AN 1/30
			Code which identifies a specific location	
			Condition: Will be sent if it is in the EDU's system and is required for tax purposes.	
			Service Address County/Parish	

Segment: **PER** Administrative Communications Contact (8R - Customer Service Address)

Position: 080
Loop: N1 Optional
Level: Heading
Usage: Optional

Max Use: >1

Purpose: To identify a person or office to whom administrative communications should be directed

- Syntax Notes:**
- 1 If either PER03 or PER04 is present, then the other is required.
 - 2 If either PER05 or PER06 is present, then the other is required.
 - 3 If either PER07 or PER08 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

Request: Not Used
 CE Accept Response: Must send for Service Address if maintained in the EDU system.
 All Other Responses: Not Used
 Used to convey information about the customer at the service address.
 PER~IC~CONTACT NAME~TE~6145551212

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	PER01	366 Contact Function Code	M ID 2/2
		Code identifying the major duty or responsibility of the person or group named	
		IC Information Contact	
M	PER02	93 Name	O AN 1/60
		Free-form name	
M	PER03	365 Communication Number Qualifier	X ID 2/2
		Code identifying the type of communication number	
		EM Electronic Mail	
		FX Facsimile	
		TE Telephone	
M	PER04	364 Communication Number	X AN 1/80
		Complete communications number including country or area code when applicable	
C	PER05	365 Communication Number Qualifier	X ID 2/2
		Code identifying the type of communication number	
		Condition: Required if available	
		EM Electronic Mail	
		FX Facsimile	
		TE Telephone	
C	PER06	364 Communication Number	X AN 1/80
		Complete communications number including country or area code when applicable	
		Condition: Required if available	
C	PER07	365 Communication Number Qualifier	X ID 2/2
		Code identifying the type of communication number	
		Condition: Required if available	
		EM Electronic Mail	
		FX Facsimile	
		TE Telephone	
C	PER08	364 Communication Number	X AN 1/80
		Complete communications number including country or area code when applicable	

Segment: **N1** Name (RS - Scheduling Coordinator)
Position: 040
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: 1 At least one of N102 or N103 is required.
 2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
 2 N105 and N106 further define the type of entity in N101.
Notes: Required for DP&L only; otherwise not used
 N1~RS~SCHEDULING COORDINATOR #2~1~345897543

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	N101	98 Entity Identifier Code	M ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual	
		RS Receiving Facility Scheduler	
		Scheduling Coordinator	
M	N102	93 Name	X AN 1/60
		Free-form name	
		Name of scheduling coordinator	
M	N103	66 Identification Code Qualifier	X ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)	
		1 D-U-N-S Number, Dun & Bradstreet	
		9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix	
M	N104	67 Identification Code	X AN 2/80
		Code identifying a party or other code	
		Scheduling Coordinator Duns or Duns + 4 number	

Segment: **N1** Name (BT - Customer Billing Name)
Position: 040
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: 1 At least one of N102 or N103 is required.
 2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
 2 N105 and N106 further define the type of entity in N101.
Notes: Request: Not Used
 CE Accept Response: Required if Billing Address is different than Service Address
 All other Responses: Not Used
 N1~BT~ACCOUNTS PAYABLE DIVISION

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	N101	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual BT	M ID 2/3 Bill-to-Party
M	N102	93	Name Free-form name Name associated with billing address	X AN 1/60 Customer Billing Name

Segment: N3 Address Information (BT - Customer Billing Address)
Position: 060
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:
Notes: Request: Not Used
 CE Accept Response: Required if Billing Address is different than Service Address
 All other Responses: Not Used
 N3~123 N MAIN ST~MS FLR 13

Data Element Summary

	Ref.	Data	Name	Attributes
	Des.	Element		
M	N301	166	Address Information Address information Billing Address	M AN 1/55
C	N302	166	Address Information Address information Billing Address Overflow Condition: If there is an overflow, it must be sent.	O AN 1/55

Segment: **N4 Geographic Location (BT - Customer Billing Address)**
Position: 070
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 is required.
Semantic Notes:
Comments: 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
 2 N402 is required only if city name (N401) is in the U.S. or Canada.
Notes: Request: Not Used
 CE Accept Response: Required if Billing Address is different than Service Address
 All other Responses: Not Used
 N4~ANYTOWN~OH~19999~US
 N4~ANYTOWN~OH~199990001~US
 N4~MISSISSAUGA~ON~L4W4E4~CA

Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
M	N401	19 City Name Free-form text for city name	O AN 2/30
M	N402	156 State or Province Code Code (Standard State/Province) as defined by appropriate government agency	O ID 2/2
M	N403	116 Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States) Postal codes will only contain uppercase letters (A to Z) and digits (0 to 9). Note that punctuation (spaces, dashes, etc.) must be excluded.	O ID 3/15
M	N404	26 Country Code Code identifying the country For country codes not listed, please refer to ISO 3166, a version of which can be found at http://treetops.commerce.net/research/stats/countrycodes.html .	O ID 2/3
		US United States	

Segment: **PER** Administrative Communications Contact (BT - Customer Billing Address)

Position: 080
Loop: N1 Optional
Level: Heading
Usage: Optional

Max Use: >1

Purpose: To identify a person or office to whom administrative communications should be directed

- Syntax Notes:**
- 1 If either PER03 or PER04 is present, then the other is required.
 - 2 If either PER05 or PER06 is present, then the other is required.
 - 3 If either PER07 or PER08 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

Request: Not Used
 CE Accept Response: Must send for Billing Address if maintained in the EDU system.
 All Other Responses: Not Used
 Used to convey information about the customer at the billing address.
 PER~IC~ACCOUNTING~TE~6145551212

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	PER01	366	Contact Function Code Code identifying the major duty or responsibility of the person or group named IC Information Contact	M ID 2/2
M	PER02	93	Name Free-form name	O AN 1/60
M	PER03	365	Communication Number Qualifier Code identifying the type of communication number EM Electronic Mail FX Facsimile TE Telephone	X ID 2/2
M	PER04	364	Communication Number Complete communications number including country or area code when applicable	X AN 1/80
C	PER05	365	Communication Number Qualifier Code identifying the type of communication number Condition: Required if available EM Electronic Mail FX Facsimile TE Telephone	X ID 2/2
C	PER06	364	Communication Number Complete communications number including country or area code when applicable Condition: Required if available	X AN 1/80
C	PER07	365	Communication Number Qualifier Code identifying the type of communication number Condition: Required if available EM Electronic Mail FX Facsimile TE Telephone	X ID 2/2
C	PER08	364	Communication Number Complete communications number including country or area code when applicable	X AN 1/80

Segment: **N1** Name (PK - Party to Receive Notices)
Position: 040
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes:

- 1 At least one of N102 or N103 is required.
- 2 If either N103 or N104 is present, then the other is required.

Semantic Notes:
Comments:

- 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
- 2 N105 and N106 further define the type of entity in N101.

Notes:

Request: Not Used

CE Accept Response: Required if there is a third party to receive a copy of all notices. (Not used by AEP)

All other Responses: Not Used

N1~PK~DIFFERENT NAME

Data Element Summary

Ref.	Data Element	Name	Attributes
M	N101	98 Entity Identifier Code	M ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual	
		PK Party to Receive Copy	
			Third party that is to receive a copy of all notices (not bills) to the end use customer.
M	N102	93 Name	X AN 1/60
		Free-form name	
			Name of third party that is to receive copy of all notices.

Segment: **N3** Address Information (PK - Party to Receive copy of all notices)
Position: 060
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:
Notes: Request: Not Used
 CE Accept Response: Required if there is a third party to receive a copy of all notices.
 (Not used by AEP)
 All other Responses: Not Used
 N3~123 N MAIN ST~MS FLR 13

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	N301	166	Address Information Address information Third party notice Address	M AN 1/55
C	N302	166	Address Information Address information Third party notice address overflow Condition: If there is an overflow, it must be sent.	O AN 1/55

Segment: **N4 Geographic Location (PK - Party to Receive copy of all notices)**
Position: 070
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 is required.
Semantic Notes:
Comments: 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2 N402 is required only if city name (N401) is in the U.S. or Canada.
Notes: Request: Not Used
CE Accept Response: Required if there is a third party to receive a copy of all notices. (Not used by AEP)
All other Responses: Not Used
N4~ANYTOWN~OH~19999~US
N4~ANYTOWN~OH~199990001~US

Data Element Summary

Ref.	Data	Name	Attributes
M	N401	19 City Name Free-form text for city name	O AN 2/30
M	N402	156 State or Province Code Code (Standard State/Province) as defined by appropriate government agency	O ID 2/2
M	N403	116 Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States) Postal codes will only contain uppercase letters (A to Z) and digits (0 to 9). Note that punctuation (spaces, dashes, etc.) must be excluded.	O ID 3/15
M	N404	26 Country Code Code identifying the country For country codes not listed, please refer to ISO 3166, a version of which can be found at http://treetops.commerce.net/research/stats/countrycodes.html . US United States	O ID 2/3

Segment: **PER** Administrative Communications Contact (PK - Party to Receive copy of all notices)

Position: 080

Loop: N1 Optional

Level: Heading

Usage: Optional

Max Use: >1

Purpose: To identify a person or office to whom administrative communications should be directed

Syntax Notes:

- 1 If either PER03 or PER04 is present, then the other is required.
- 2 If either PER05 or PER06 is present, then the other is required.
- 3 If either PER07 or PER08 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

Request: Not Used

CE Accept Response: Must send for third party notice address if maintained in the EDU system. (Not used by AEP)

All Other Responses: Not Used

Used to convey information about the party to receive copies of all notices.

PER~IC~ACCOUNTING~TE~6145551212

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	PER01	366	Contact Function Code Code identifying the major duty or responsibility of the person or group named IC Information Contact	M ID 2/2
M	PER02	93	Name Free-form name	O AN 1/60
M	PER03	365	Communication Number Qualifier Code identifying the type of communication number EM Electronic Mail FX Facsimile TE Telephone	X ID 2/2
M	PER04	364	Communication Number Complete communications number including country or area code when applicable	X AN 1/80
C	PER05	365	Communication Number Qualifier Condition: Required if available Code identifying the type of communication number EM Electronic Mail FX Facsimile TE Telephone	X ID 2/2
C	PER06	364	Communication Number Complete communications number including country or area code when applicable Condition: Required if available	X AN 1/80
C	PER07	365	Communication Number Qualifier Code identifying the type of communication number Condition: Required if available EM Electronic Mail FX Facsimile TE Telephone	X ID 2/2
C	PER08	364	Communication Number Complete communications number including country or area code when applicable	X AN 1/80

Complete communications number including country or area code when applicable

Condition: Required if available

Segment: **N1** Name (2C - Party to Receive Copy of Bill)
Position: 040
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: 1 At least one of N102 or N103 is required.
 2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
 2 N105 and N106 further define the type of entity in N101.
Notes: Request: Not Used
 CE Accept Response: Required if there is a third party to receive a copy of all bills, not notices.
 All other Responses: Not Used
 N1~2C~DIFFERENT NAME

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	N101	98 Entity Identifier Code	M ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual	
		2C Co-Participant	
		Third party who will receive copies of all bills, not notices.	
M	N102	93 Name	X AN 1/60
		Free-form name	
		Name of party that is to receive a copy of the bill.	

Segment: N3 Address Information (2C - Party to Receive Copy of Bill)
Position: 060
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:
Notes:

Request: Not Used
 CE Accept Response: Required if there is a third party to receive a copy of the bill. (Not used by AEP)

 All other Responses: Not Used
 N3~123 N MAIN ST~MS FLR 13

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	N301	166	Address Information Address information Party to receive copy of bill address	M AN 1/55
C	N302	166	Address Information Address information Party to receive copy of bill Address Overflow Condition: If there is an overflow, it must be sent.	O AN 1/55

Segment: **N4 Geographic Location (2C - Party to Receive Copy of Bill)**
Position: 070
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 is required.
Semantic Notes:
Comments: 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
 2 N402 is required only if city name (N401) is in the U.S. or Canada.
Notes: Request: Not Used
 CE Accept Response: Required if there is another party to receive a copy of the bill. (Not used by AEP)
 All other Responses: Not Used
 N4~ANYTOWN~OH~18111~US
 N4~ANYTOWN~OH~181110001~US

Data Element Summary

Ref.	Data	Name	Attributes
M	N401	19 City Name Free-form text for city name	O AN 2/30
M	N402	156 State or Province Code Code (Standard State/Province) as defined by appropriate government agency	O ID 2/2
M	N403	116 Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States) Postal codes will only contain uppercase letters (A to Z) and digits (0 to 9). Note that punctuation (spaces, dashes, etc.) must be excluded.	O ID 3/15
M	N404	26 Country Code Code identifying the country For country codes not listed, please refer to ISO 3166, a version of which can be found at http://treetops.commerce.net/research/stats/countrycodes.html . US United States	O ID 2/3

Segment: **PER** Administrative Communications Contact (2C - Party to Receive Copy of Bill)
Position: 080
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To identify a person or office to whom administrative communications should be directed
Syntax Notes:

- 1 If either PER03 or PER04 is present, then the other is required.
- 2 If either PER05 or PER06 is present, then the other is required.
- 3 If either PER07 or PER08 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

Request: Not Used
 CE Accept Response: Must send if maintained in the EDU system. (Not used by AEP)

 All Other Responses: Not Used
 Used to convey information about the party to receive copies of the bill.
 PER~IC~ACCOUNTING~TE~6145551212

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	PER01	366	Contact Function Code Code identifying the major duty or responsibility of the person or group named IC Information Contact	M ID 2/2
M	PER02	93	Name Free-form name	O AN 1/60
M	PER03	365	Communication Number Qualifier Code identifying the type of communication number EM Electronic Mail FX Facsimile TE Telephone	X ID 2/2
M	PER04	364	Communication Number Complete communications number including country or area code when applicable	X AN 1/80
C	PER05	365	Communication Number Qualifier Code identifying the type of communication number Condition: Required if available EM Electronic Mail FX Facsimile TE Telephone	X ID 2/2
C	PER06	364	Communication Number Complete communications number including country or area code when applicable Condition: Required if available	X AN 1/80
C	PER07	365	Communication Number Qualifier Code identifying the type of communication number Condition: Required if available EM Electronic Mail FX Facsimile TE Telephone	X ID 2/2
C	PER08	364	Communication Number Complete communications number including country or area code when applicable	X AN 1/80

Segment: **LIN** Item Identification

Position: 010

Loop: LIN Optional

Level: Detail

Usage: Optional

Max Use: 1

Purpose: To specify basic item identification data

Syntax Notes:

- 1 If either LIN04 or LIN05 is present, then the other is required.
- 2 If either LIN06 or LIN07 is present, then the other is required.
- 3 If either LIN08 or LIN09 is present, then the other is required.
- 4 If either LIN10 or LIN11 is present, then the other is required.
- 5 If either LIN12 or LIN13 is present, then the other is required.
- 6 If either LIN14 or LIN15 is present, then the other is required.
- 7 If either LIN16 or LIN17 is present, then the other is required.
- 8 If either LIN18 or LIN19 is present, then the other is required.
- 9 If either LIN20 or LIN21 is present, then the other is required.
- 10 If either LIN22 or LIN23 is present, then the other is required.
- 11 If either LIN24 or LIN25 is present, then the other is required.
- 12 If either LIN26 or LIN27 is present, then the other is required.
- 13 If either LIN28 or LIN29 is present, then the other is required.
- 14 If either LIN30 or LIN31 is present, then the other is required.

Semantic Notes:

Comments:

- 1 LIN01 is the line item identification
- 1 See the Data Dictionary for a complete list of IDs.
- 2 LIN02 through LIN31 provide for fifteen different product/service IDs for each item.
For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes: Processing Order: Only one service may be requested per LIN Loop. The sender must send the primary service request first within any single 814.

Response/LIN: There must be a response for each LIN request.

Rejections:

If the primary service request (Energy Services) is rejected, all secondary services (e.g. historical usage request, etc.) must also be rejected using REF~7G~SSR (Secondary Service Rejected).

FirstEnergy will not use the SSR but instead processes the secondary request even when the primary service request rejects.

PLEASE NOTE: SOME UTILITIES MAY CHARGE FOR MONTHLY INTERVAL DATA. TO AVOID THIS CHARGE THE SI REQUEST FOR SUMMARY DATA MUST BE SENT AS OUTLINED BELOW.

Request: Required

Response: Required

LIN~AECE1999123108590001~SH~EL~SH~CE

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	LIN01	350	Assigned Identification	O AN 1/20
			Alphanumeric characters assigned for differentiation within a transaction set On the request, this is a unique tracking number for each line item (LIN) in this transaction. This number must be unique over time. This number must be returned on the response transaction in the same element.	
			Tracking numbers will only contain uppercase letters (A to Z) and digits (0 to 9). Note that punctuation (spaces, dashes, etc.) must be excluded.	
M	LIN02	235	Product/Service ID Qualifier	M ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234) SH Service Requested	

M	LIN03	234	Product/Service ID Identifying number for a product or service EL Electric Service	M AN 1/48
M	LIN04	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) SH Service Requested	X ID 2/2
M	LIN05	234	Product/Service ID Identifying number for a product or service CE Energy Services Indicates this transaction relates to Energy Services. HI Historical Interval Usage Request to obtain historical interval usage for this customer. The usage data is returned on a Historical Interval Usage transaction (e.g. 867, web, etc.) If Historical Interval Usage is requested, but the intervals are not available, a Historical Monthly Usage transaction will be sent. HU Historical Monthly Usage Request to obtain historical monthly usage information for this customer. The usage data is returned on an 867 Historical Monthly Usage transaction. SI Summary Interval Request to obtain summary level data for an interval customer. This may be sent with an Energy Services Enrollment or on a change transaction. (Not used by Duke Energy Ohio – CRES must send REF17 under CE service.) Interval data, when available, must be provided at a summary level and at a detail level. * As a default, interval data will be sent at the summary and the detail level. PLEASE NOTE THAT SOME UTILITIES MAY CHARGE FOR MONTHLY INTERVAL DATA. * If the requestor wants to receive interval data at only the summary level, then an SI request must be sent in LIN05. SENDING THE SI REQUEST WILL ELIMINATE ANY CHARGES THAT MAY BE INCURRED FOR RECEIVING THE INTERVAL DATA. * If the account is not an interval account, the request should be accepted, but a status reason code of NIA must be sent.	X AN 1/48

Segment: **ASI** Action or Status Indicator
Position: 020
Loop: LIN Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To indicate the action to be taken with the information provided or the status of the entity described

Syntax Notes:
Semantic Notes:
Comments:
Notes:

Identifies the action to be taken or the status of a requested action for the service identified in the LIN segment.
 Request: Required
 Accept Response: Required
 Reject Response: Required
 ASI~7~021 (Request)
 ASI~WQ~021 (Accept Response)
 ASI~U~021 (Reject Response)

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	ASI01	306	Action Code	M ID 1/2
			Code indicating type of action	
			7 Request	
			U Reject	
			WQ Accept	
M	ASI02	875	Maintenance Type Code	M ID 3/3
			Code identifying the specific type of item maintenance	
		021	Addition	
				Used when requesting the following services: CE - Energy Services
		029	Inquiry	
				Use when requesting the following services: HI - Historical Interval Usage HU - Historical Monthly Usage SI - Summary Information for Interval Account

Segment: **REF** Reference Identification (CRES Account Number)
Position: 030
Loop: LIN Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes: Account numbers will only contain uppercase letters (A to Z) and digits (0 to 9). Note that punctuation (spaces, dashes, etc.) must be excluded, and leading and trailing zeros that are part of the account number must be present.
Request: Optional
Accept Response: Required unless account number was not provided on the request
Reject Response: Required unless account number was not provided on the request
REF~11~2348400586

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification 11 Account Number CRES Account Number	M ID 2/3
M	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier CRES Account Number	X AN 1/30

Segment: **REF** Reference Identification (EDU Account Number)
Position: 030
Loop: LIN Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes: Account numbers will only contain uppercase letters (A to Z) and digits (0 to 9). Note that punctuation (spaces, dashes, etc.) must be excluded, and leading and trailing zeros that are part of the account number must be present.
Request: Conditional – Required for all utilities except AEP, which will use Service Delivery Identification Number.
Accept Response: Conditional - Required for all utilities except AEP, which will use Service Delivery Identification Number. First Energy will send Customer Number
Reject Response: Conditional - Required for all utilities except AEP, which will use Service Delivery Identification Number unless account number was not provided on the request. First Energy will send Customer Number
REF~12~2931839200

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			12 Billing Account	
			EDU Account Number	
M	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			EDU Account Number	

Segment: **REF** Reference Identification (Type of information)
Position: 030
Loop: LIN Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes: Every utility must provide the ability for a supplier to receive interval data at either the summary level or the detail level. (Duke Energy Ohio requires this to be sent under LIN = CE)
Request: Required for interval meters
Accept Response: Required for interval meters
Reject Response: Not Used
REF~17~SUMMARY

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			17 Client Reporting Category	
			Used to indicate how the interval metering usage will be sent (summary or detail)	
M	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			Summary or Detail	

Segment: **REF** Reference Identification (Status Reason)
Position: 030
Loop: LIN Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes:

Request: Not Used
Accept Response: Required when status information must be conveyed.
Reject Response: Not Used
REF~1P~HUU~HISTORICAL USAGE UNAVAILABLE

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification 1P Accessorial Status Code Used on the response when the request is accepted, and additional status information must be provided.	M ID 2/3
M	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier A13 Other Valid for LIN05 = CE, HI, HU, SI Explanation Required in REF03. When A13 is used, an email should be sent to the Ohio deregulation list serve to determine if a new code needs to be established. A84 Invalid Relationship Valid for LIN05 = SI This will be used when the requestor is not the supplier of record. ABN Duplicate Request Received Valid for LIN05 = CE, HI, HU, SI B30 Currently Enrolled Valid for LIN05 = CE Used to indicate that the customer is already enrolled with the CRES that is requesting enrollment. The transaction is treated as an inquiry. HIU Historical Interval Usage Unavailable Valid for LIN05 = HI Historical Monthly Usage data will be provided instead. HUU Historical Monthly Usage Unavailable Valid for LIN05 = HI, HU No Historical Usage MIP Meter Install Pending If this code is used, DTM~150 (Estimated Start Date) will not be populated. NIA Not Interval Account Valid for LIN05 = SI SNP Service Not Provided Valid for LIN05 = HI, HU, SI	X AN 1/30

REF03 may contain further information, such as "Not available via EDI, please call"

C	REF03	352	Description	X AN 1/80
			A free-form description to clarify the related data elements and their content	
			Used to further describe the status reason code sent in REF02. Code "A13" requires a text explanation in this element.	

Segment: **REF** Reference Identification (Previous EDU)
Position: 030
Loop: LIN Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes: Account numbers will only contain uppercase letters (A to Z) and digits (0 to 9). Note that punctuation (spaces, dashes, etc.) must be excluded, and leading and trailing zeros that are part of the account number must be present.
Request: Not Used
Response: Required if the EDU Account Number has changed within the last 60 days. Required for all utilities except AEP, which will use Service Delivery Identification Number. First Energy will always send if noted on the account in CIS system
REF~45~1105687500

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification 45 Old Account Number EDU's previous account number for the customer. Only applies to the current service address. This account number change as a result of the utility re-routing	M ID 2/3
M	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Previous EDU Account Number	X AN 1/30

Segment: **REF** Reference Identification (Rejection Reason)
Position: 030
Loop: LIN Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes:

Request:	Not Used
Accept Response:	Not Used
Reject Response:	Required
REF~7G~A13~ADDITIONAL REASON TEXT HERE	

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification 7G Data Quality Reject Reason Reject reasons associated with a reject status notification.	M ID 2/3
M	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier 008 Account exists but is not active Valid for LIN05 = CE, HI, HU, SI 021 Move Pending Valid for LIN05 = CE Customer will be moving before the CRES intended start date. A13 Other Valid for LIN05 = CE, HI, HU, SI Explanation Required in REF03. When A13 is used, an email should be sent to the Ohio deregulation list serve to determine if a new code needs to be established. A74 Energy Supplier Account Invalid or Not Found Valid for LIN05 = CE, HI, HU, SI A76 Utility Account Invalid or Not Found Valid for LIN05 = CE, HI, HU, SI This code may not be used as a rejection reason if the correct previous EDU account number was submitted and the EDU changed account numbers (i.e., re-route) within the last 60 days. A78 Service address does not match account ABN Duplicate Request Received Valid for LIN05 = CE, HI, HU, SI ACI Action Code (ASI01) Invalid Valid for LIN05 = CE, HI, HU, SI ANE Account Not Eligible ANK Invalid Source of Information Valid for LIN05 = CE, HI, HU, SI Receiver of request does not provide requested service	X AN 1/30

ANL	and/or does not have requested information. Service Provider not licensed to provide requested service Valid for LIN05 = CE, HI, HU, SI
ANM	Competitive Retail Energy Supplier not certified by Utility Valid for LIN05 = CE
API	Required information missing (REF03 Required) Valid for LIN05 = CE, HI, HU, SI Explanation Required in REF03
B30	Currently Enrolled Valid for LIN05 = CE Used to indicate that the customer is already enrolled with the CRES that is requesting enrollment. EDU is rejecting due to duplicate request (DP&L only)
C02	Customer is on Credit Hold Valid for LIN05 = CE Only applicable if the CRES requests EDU Consolidated Billing and the customer arrears exceeds limits outlined in purchase of receivables contract between the EDU and CRES
CMP	Customer locked with ESP Valid for LIN05 = CE The customer has enrolled with another CRES. The customer cannot be enrolled until the pending enrollment is complete.
D76	Duns Number Invalid or Not Found Valid for LIN05 = CE, HI, HU, SI
DIV	Date/Time Invalid or Missing Valid for LIN05 = CE
FCD	Future Contract Date Not Supported Valid for LIN05 = CE
FRB	Incorrect Billing Type (REF~BLT) Requested Valid for LIN05 = CE
FRC	Incorrect Bill Calculation method (REF~PC) Requested Valid for LIN05 = CE
IAC	Invalid Aggregation Code Valid for LIN05 = CE The REF03 in REFPG is incorrect
IAT	Invalid Aggregation Indicator Valid for LIN05 = CE The REF02 in the REFPG is incorrect
M76	Invalid Meter Valid for LIN05 = CE, HI, HU, SI
MIP	Meter Installed Pending
MSU	Minimum Stay Unsatisfied Valid for LIN05 = CE
MTI	Maintenance Type Code (ASI02) Invalid Valid for LIN05 = CE, HI, HU, SI
NFI	Not First In Valid for LIN05 = CE The customer has enrolled with another CRES. The customer cannot be enrolled until the pending enrollment is complete.
NLI	Not last in

			Valid for LIN05 = CE The customer has enrolled with another CRES.
		NMI	No Meter Installed
			Valid for LIN05 = CE
		SDP	New account, no meter installed yet. Invalid Service Delivery Identification Number
			Valid for LIN05 = CE, HI, HU, SI
		SSR	Secondary Service Rejected
			Valid for LIN05 = HI, HU, SI
		UND	Secondary Service not performed because Primary Service was rejected. Cannot Identify CRES
			Valid for LIN05 = CE, HI, HU, SI
		UNE	Cannot Identify EDU
			Valid for LIN05 = CE, HI, HU, SI
		W05	Requested Rate not found or not in effect on the effective date (rate ready only)

C REF03 352 Description X AN 1/80
A free-form description to clarify the related data elements and their content
Used to further describe the status reason code sent in REF02. Code "A13" requires a text explanation in this element.

Segment: **REF** Reference Identification (Billing Type)
Position: 030
Loop: LIN Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:

Notes:	CE Request:	Required
	CE Accept Response:	Required
	CE Reject Response:	Not Used
	All other Requests:	Not Used
	All other Responses:	Not Used
	REF~BLT~LDC	

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification BLT Billing Type Indicates whether the bill is consolidated by the EDU or CRES, or whether each party will render their own bill.	M ID 2/3
M	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier DUAL Dual Billing Each party bills the customer for its portion ESP Energy Supplier Consolidated Billing The CRES bills the customer. LDC Utility Consolidated Billing The EDU bills the customer	X AN 1/30

Segment: **REF** Reference Identification (Billing Cycle)
Position: 030
Loop: LIN Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes:

Request:	Not Used
CE Accept Response:	Required
All other Accept Response:	Not Used
REF~BF~11	

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification BF Billing Center Identification EDU Billing Cycle. Cycle number when the billing will be rendered.	M ID 2/3
M	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Billing Cycle Number	X AN 1/30

Segment: **REF** Reference Identification (KY=Special Meter Configuration)
Position: 030
Loop: LIN
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:

Notes:

CE Request:	Not Used
CE Accept Response:	Required if Net Meter is present (FirstEnergy Only)
CE Reject Response:	Not Used
All other Requests:	Not Used
All other Responses:	Not Used
REF~KY~NETMETER	

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>X12 Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			KY Site Specific Procedures, Terms, and Conditions	
			Special Meter Configuration	
Must Use	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			NETMETER Net Meter	

Segment: **REF** Reference Identification (EDU Budget Billing Status)
Position: 030
Loop: LIN Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes: Used to convey the budget billing status at the point of time of the enrollment. An 814 change will not be sent if the status changed.
Request: Not Used
CE Accept Response: Required only if EDU consolidated or Dual.
All other Responses: Not Used
REF~NR~Y

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			NR Progress Payment Number	
			EDU Budget Billing Status	
M	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			N No	
			The EDU is not budget billing the EDU charges for this customer.	
			Y Yes	
			The EDU is budget billing the EDU charges for this customer.	

Segment: **REF** Reference Identification (Party Calculating the Charges)
Position: 030
Loop: LIN Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:

Notes:	CE Request:	Required
	CE Accept Response:	Required
	CE Reject Response:	Not Used
	All other Requests:	Not Used
	All other Responses:	Not Used
	REF~PC~LDC	

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			PC Production Code	
M	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			DUAL Each Party calculates its portion of the bill	
			LDC The EDU calculates charges for each party	

Segment: **REF** Reference Identification (Government Aggregation)
Position: 030
Loop: LIN Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes: CE Request Response: Required if Customer is being put on government aggregation (FE, AEP, Duke Energy Ohio, and DP&L). Required by FE only if Customer is being put on non-government aggregation.
CE Accept Response: Required if sent on Request
CE Reject Response: Not Used

All other Requests: Not Used
All other Responses: Not Used
REF~PG~GAG

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification PG Product Group Aggregation	M ID 2/3
M	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier GAG Government Aggregation First Energy, AEP, Duke Energy Ohio, and DP&L AGG Group (Non Government) Aggregation First Energy only GAX Governmental Aggregation – (DP&L exclude RSC and AEP to exclude POLR Rider Charges)	X AN 1/30
C	REF03	352	Description A free-form description to clarify the related data elements and their content Required for First Energy when the account is associated with an aggregation. Required for AEP and DP&L when the account is associated with a governmental aggregation ONLY. Not used by Duke Energy Ohio. The REF03 will contain the Group Aggregation Code provided the EDU. For FE only, If the information provided in the Group Aggregation Code does not meet validation criteria, the enrollment will be accepted but a REF*1P loop will be sent with an A13 message in the response stating “Invalid group aggregation code”. For AEP and DP&L the enrollment will be rejected if the information provided does not meet the validation criteria.	X AN 1/80

Segment: **REF** Reference Identification (Standard Interconnection Point)
Position: 030
Loop: LIN Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes:

Request:	Not Used
CE Accept Response:	Optional
All other Responses:	Not Used
REF~SPL~~MESA SUBSTATION	

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification SPL Standard Point Location Code (SPLC) Point at which the utility's distribution system is connected to the transmission grid for the Service Delivery Point (SDP).	M ID 2/3
M	REF03	352	Description A free-form description to clarify the related data elements and their content Standard Interconnection Point – Note REF03 is used, not REF02.	X AN 1/80

Segment: **REF** Reference Identification (Q5 = SDID Number)
Position: 030
Loop: LIN Optional
Level: Detail
Usage: Optional
Max Use: 12
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes: SDID numbers will only contain uppercase letters (A to Z) and Digits (0 - 9). Note that punctuation (spaces, dashes, etc.) must be excluded, and leading and trailing zeros that are part of the SDID number must be present.
Required if customer is in AEP service territory. Max 1 per transaction
REF~Q5~9876543245678DCH

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			Q5 Property Control Number	
			AEP assigned Service Delivery Identification Number	
M	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			AEP assigned Service Delivery Identification Number	

Segment: **DTM** **Date/Time Reference (Contract Effective Date)**
Position: 040
Loop: LIN Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify pertinent dates and times
Syntax Notes:

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

This segment will be used by the EDU only if more than one request for a customer is received on the same day. Time zone will always be Eastern Prevailing time.

CE Request: Required
 CE Accept Response: Required
 CE Reject Response: Not Used

All other Requests: Not Used

All other Responses: Not Used

DTM~129~19990115~1523

DTM~129~19990115~1523~CT

Data Element Summary

Ref.	Data Des.	Data Element	Name	Attributes
M	DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time 129 Customer Contract Effective The date/time the customer agreed to obtain service from the CRES	M ID 3/3
M	DTM02	373	Date Date expressed as CCYYMMDD Date	X DT 8/8
M	DTM03	337	Time Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	X TM 4/8
C	DTM04	623	Time Code Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow Conditional - Only used if the time is other than Eastern time. CT Central Time ET Eastern Time MT Mountain Time PT Pacific Time	O ID 2/2

Segment: **DTM** Date/Time Reference (Service Period Start)
Position: 040
Loop: LIN Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify pertinent dates and times
Syntax Notes:

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

Request: Not Used
 CE Accept Response: Required unless pending a meter change (REF~1P = MIP)
 All other Responses: Not Used
 DTM~150~19990115

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	DTM01	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time	
			150 Service Period Start	
			The date energy is expected to flow for this customer for the CRES.	
M	DTM02	373	Date	X DT 8/8
			Date expressed as CCYYMMDD	
			Date expressed as CCYYMMDD	

Segment: **AMT** Monetary Amount (Number of Months)
Position: 060
Loop: LIN Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Comments:
Notes: Request: Not Used
 CE Accept Response: Required
 All other Responses: Not Used
 AMT~LD~13

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
M	AMT01	522	Amount Qualifier Code Code to qualify amount LD Incremental The number of months over which the Total kWh is calculated.	M ID 1/3
M	AMT02	782	Monetary Amount Monetary amount Number of Months	M R 1/18

Segment: **AMT** Monetary Amount (Peak Demand)
Position: 060
Loop: LIN Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Comments:

Notes:
 Request: Not Used
 CE Accept Response: Required if the meter measures demand,
 otherwise not used.
 All other Responses: Not Used
 AMT~MA~423899.2

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
M	AMT01	522	Amount Qualifier Code	M ID 1/3
			Code to qualify amount	
			MA	Maximum Amount
				Peak Demand or Maximum Daily Quantity (MDQ).
M	AMT02	782	Monetary Amount	M R 1/18
			Monetary amount	
			Peak Demand (kW)	

Segment: **AMT** Monetary Amount (Budget Amount)
Position: 060
Loop: LIN Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Comments:
Notes: Request: Conditional: Required if EDU is First Energy and customer is on budget billing, not used for other EDUs.
 Response: Not Used
 AMT~B5~80.00

Data Element Summary

	Ref.	Data	Name	Attributes
	Des.	Element		
M	AMT01	522	Amount Qualifier Code Code to qualify amount B5 Budgeted	M ID 1/3
M	AMT02	782	Monetary Amount Monetary amount Monthly Budget Amount	M R 1/18

Segment: **AMT** Monetary Amount (Annual kWh Total)
Position: 060
Loop: LIN Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Comments:
Notes: Request: Not Used
 CE Accept Response: Required
 All other Responses: Not Used
 AMT~TA~12345678.9

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
M	AMT01	522	Amount Qualifier Code Code to qualify amount TA Total Annual Sales Total kWh	M ID 1/3
M	AMT02	782	Monetary Amount Monetary amount Total kWh	M R 1/18

Segment: **AMT** Monetary Amount (KC=Peak Load Contribution)
Position: 060
Loop: LIN
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Comments:

Notes: Request: Not Used
 CE Accept Response: Required for PJM Participants only
 All other Accept: Not Used

The value provided is at the Account or Service Delivery Identifier Number (SDI) level for AEP. Zero values may be sent if the EDU is, in fact, stating that there is no contribution for this customer's account or SDI level.

Example: AMT*KC*752

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>X12 Attributes</u>
Must Use	AMT01	522	Amount Qualifier Code Code to qualify amount KC	M ID 1/3 Obligated Peak Load Contribution (a.k.a. Capacity Contribution, 5CP, or Load Responsibility): Peak load contributions provided to PJM for Installed Capacity calculation (coincident with PJM peak).
Must Use	AMT02	782	Monetary Amount Monetary amount Peak Load Contribution	M R 1/18

Segment: **AMT** Monetary Amount (KZ=Network Service Peak Load)
Position: 060
Loop: LIN
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Comments:

Notes:
 Request: Not Used
 CE Accept Response: Required for PJM Participants only
 All other Accept: Not Used

The value provided is at the Account or Service Delivery Identifier Number (SDI) level for AEP. Zero values may be sent if the EDU is, in fact, stating that there is no contribution for this customer's account or SDI.

Example: AMT*KZ*752

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>X12 Attributes</u>
Must Use	AMT01	522	Amount Qualifier Code Code to qualify amount KZ	M ID 1/3
			Mortgager's Monthly Obligations Network Service Peak Load (a.k.a. Transmission Contribution or ICP): Customer's peak load contribution provided to PJM for the Transmission Service calculation (coincident with LDC peak).	
Must Use	AMT02	782	Monetary Amount Monetary amount Network Service Peak Load	M R 1/18

Segment: **NM1 Individual or Organizational Name (Meter Level Information)**
Position: 080
Loop: NM1 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To supply the full name of an individual or organizational entity
Syntax Notes: 1 If either NM108 or NM109 is present, then the other is required.
 2 If NM111 is present, then NM110 is required.
Semantic Notes: 1 NM102 qualifies NM103.
Comments: 1 NM110 and NM111 further define the type of entity in NM101.
Notes: Request: Required - use "ALL", "UNMETERED", or provide one NM1 Loop for each meter number.
 CE Accept Response: Required. One NM1 Loop must be provided for each Meter number. (NM109=ALL is not valid on the Response)

All other Responses: Not Used
 NM1~MQ~3~~~~~32~1234568MG
 NM1~MQ~3~~~~~93~UNMETERED
 NM1~MQ~3~~~~~93~ALL

Data Element Summary

Ref.	Data Des.	Element	Name	Attributes
M	NM101	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual MQ Metering Location	M ID 2/3
M	NM102	1065	Entity Type Qualifier Code qualifying the type of entity 3 Unknown	M ID 1/1
M	NM108	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) 32 Assigned by Property Operator Meter Number 93 Code assigned by the organization originating the transaction set This code used when a Meter Number is NOT provided in NM109 (i.e., when NM109 contains "ALL" or "UNMETERED").	X ID 1/2
M	NM109	67	Identification Code Code identifying a party or other code Meter Number or, UNMETERED - for Unmetered Services or, ALL - for ALL meters Meter numbers will only contain uppercase letters (A to Z) and digits (0 to 9). Note that punctuation (spaces, dashes, etc.) must be excluded, and leading and trailing zeros that are part of the meter number must be present.	X AN 2/80

Segment: **REF** Reference Identification (Meter Multiplier)
Position: 130
Loop: NM1 Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes: There will be one REF~4P segment for each Meter Type, creating the potential for more than one REF~4P segment per NM1 Loop.

For instance, if the meter has multiple meter types, and therefore the REF~MT segment is REF~MT~COMBO, there will be multiple REF~4P segments, one to indicate the meter multiplier for each type. For example,

```
NM1~MQ~3~~~~~32~1234568MG
REF~MT~COMBO
REF~4P~1200~K1015~TU^41
REF~4P~1~KH015
Request: Not Used
CE Accept Response: Required for each meter type for each meter that is used
for billing purposes. This segment will not be provided in
the NM1 loop for UNMETERED services.
All other Responses: Not Used
REF~4P~10~KHMON~TU^41
REF~4P~1~K1MON~TU^41
```

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification 4P Affiliation Number Meter Multiplier (Ending Reading - Beginning Reading) * Meter Multiplier = Billed Usage	M ID 2/3
M	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Meter Multiplier	X AN 1/30
M	REF03	352	Description A free-form description to clarify the related data elements and their content Meter Type (see REF~MT for valid codes). "COMBO" is not a valid code for this element.	X AN 1/80
M	REF04	C040	Reference Identifier To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier Note this is a composite data element. Populate C04001 & C04002.	O
M	C04001	128	Reference Identification Qualifier Code qualifying the Reference Identification TU Trial Location Code Time of Use	M ID 2/3

Reference Identification

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

NOTE: Other codes (as identified by UIG) can be used to identify quantities measured by the meter, but should not be used to identify tariffed/calculated measurements.

- 41 Off Peak
- 42 On Peak
- 43 Intermediate Peak
- Shoulder
- 51 Totalizer

Segment: **REF** Reference Identification (Number of Dials)
Position: 130
Loop: NM1 Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes: There will be one REF~IX segment for each applicable Meter Type, creating the potential for more than one REF~IX segment per NM1 Loop.

For instance, if the meter has multiple types, and therefore the REF~MT segment is REF~MT~COMBO, there may be multiple REF~IX segments, one to indicate the number of dials for each type that has dials. For example,

```
NM1~MQ~3~~~~~32~1234568MG
REF~MT~COMBO
REF~IX~6.0~KHMON
Request: Not Used
CE Accept Response: Required for each meter type for each meter that is used
For billing purposes that has dials. This segment will not be
Provided in the NM1 loop for UNMETERED services or for
Demand..
All other Responses: Not Used
REF~IX~6.0~KHMON~TU^41
```

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification IX Item Number Number of Dials on the Meter displayed as X.Y. The notation X.Y means that the meter has X dials to the left of the decimal point, and Y dials to the right.	M ID 2/3
M	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Number of Dials	X AN 1/30
M	REF03	352	Description A free-form description to clarify the related data elements and their content Meter Type (see REF~MT for valid codes). "COMBO" is not a valid code for this element.	X AN 1/80
M	REF04	C040	Reference Identifier To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier Note that this is a composite data element. Populate C04001 and C04002.	O
M	C04001	128	Reference Identification Qualifier Code qualifying the Reference Identification TU Trial Location Code Time of Use	M ID 2/3
M	C04002	127	Reference Identification Reference information as defined for a particular Transaction Set or as	M AN 1/30

specified by the Reference Identification Qualifier

NOTE: Other codes (as identified by UIG) can be used to identify quantities measured by the meter, but should not be used to identify tariffed/calculated measurements.

41	Off Peak
42	On Peak
43	Intermediate Peak
	Shoulder
51	Totalizer

Segment: **REF** Reference Identification (LF=Loss Factor)

Position: 130

Loop: NM1

Level: Detail

Usage: Optional

Max Use: >1

Purpose: To specify identifying information

Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:

Notes:

Request: Not Used

CE Accept Response: Required for AEP Ohio and FirstEnergy companies; optional for DP&L and Duke Energy Ohio

All other Responses: Not Used

REF~LF~2

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>X12 Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification LF Load Planning Number Loss Factor	M ID 2/3
Must Use	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

Segment: **REF** Reference Identification (Load Profile)
Position: 130
Loop: NM1 Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:

Notes:

Request:	Not Used
CE Accept Response:	Required for each non-interval meter that is used for billing purposes. This segment must also be sent when account has UNMETERED services. If a Load Profile does not exist for this customer, this segment will not be sent.
All other Responses:	Not Used
REF~LO~GS	

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			LO Load Planning Number	
			Load Profile	
M	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			Load Profile	

Segment: **REF** Reference Identification (Meter Type)
Position: 130
Loop: NM1 Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes: There will only be one REF~MT segment for each NM1 loop.
 If there are multiple meter types on this meter, only one REF~MT will be sent. It will contain the code COMBO. The specific meter types will be identified in REF03 for the attributes.
 Request: Not Used
 CE Accept Response: Required for each meter that is used for billing purposes. This segment will not be provided in the NM1 loop for UNMETERED services.
 All other Responses: Not Used
 REF~MT~KHMON*COGEN
 REF~MT~T9DAY
 REF~MT~COMBO

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification MT Meter Ticket Number Meter Type	M ID 2/3
M	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier When REF01 is MT, the meter type is expressed as a five-character field. The first two characters are the type of consumption, the last three characters are the metering interval reported for billing purposes. "COMBO" is used for a meter that records more than one measurement. Valid values can be a combination of the following values: Type of Consumption EA Each K1 Kilowatt Demand (kW) K2 Kilovolt Amperes Reactive Demand (kVAR) K3 Kilovolt Amperes Reactive Hour (kVARH) K4 Kilovolt Amperes (kVA) K5 Kilovolt Amperes Reactive (kVAR) KH Kilowatt Hour (kWh) T9 Thousand Kilowatt Hours (MW) Metering Interval Reported for Billing Purposes nnn Number of minutes from 001 to 999 ANN Annual BIA Bi-annual BIM Bi-monthly DAY Daily MON Monthly	X AN 1/30

QTR Quarterly
TOU Time of Use

For Example:

KHMON Kilowatt Hours Per Month
K1015 Kilowatt Demand per 15 minute interval

Other Valid Codes

COMBO This code is used to indicate that the meter has multiple measurements, e.g., one meter that measures both kWh and Demand.

C

REF03

352

Description

X AN 1/80

A free-form description to clarify the related data elements and their content

Condition: Required if account has cogeneration

COGEN This is a net meter used for cogeneration

Segment: **REF** Reference Identification (EDU Rate Class)
Position: 130
Loop: NM1 Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes:

Request:	Not Used
CE Accept Response:	Required for each meter that is used for billing purposes. This segment must also be sent when account has UNMETERED services available.
All other Responses:	Not Used
REF~NH~RS1	

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification NH Rate Card Number EDU Rate Class or Tariff	M ID 2/3
M	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier EDU Rate Class or Tariff	X AN 1/30

Segment: **REF** Reference Identification (EDU Rate Revenue Class)
Position: 130
Loop: NM1 Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes:

Request:	Not Used
CE Accept Response:	Required if maintained by utility, must be sent for each meter that is used for billing purposes. This segment must also be sent when account has UNMETERED services available.
All other Responses:	Not Used
REF~PR~123	

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128 Reference Identification Qualifier Code qualifying the Reference Identification PR Price Quote Number EDU Revenue Class - Used to provide further classification of a rate.	M ID 2/3
M	REF02	127 Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier EDU Revenue Class	X AN 1/30

Segment: **REF** Reference Identification (CRES Rate Code)
Position: 130
Loop: NM1 Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes:

Rate codes are established between the EDU and the CRES prior to enrollment.
CE Request: Required if the EDU is calculating the CRES charges (Rate Ready)
CE Accept Response: Required if the EDU is calculating the CRES charges (Rate Ready)
All other Responses: Not Used
REF~RB~OH87
REF~RB~OH87~10000

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification RB Rate code number CRES Rate Code for the customer	M ID 2/3
M	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Rate Code	X AN 1/30
C	REF03	352	Description A free-form description to clarify the related data elements and their content Budget Bill Rate Amount for this service (DP&L Only) Condition: Required if customer is to be on budget billing with the CRES NOTE: This field will be limited in OH to 10 characters. Since the field will contain a monetary amount, the field will be left justified with an implied decimal. For example: \$123.45 will be provided as 12345 \$100.00 will be provided as 10000	X AN 1/80

Segment: **REF** Reference Identification (SV=Service Voltage)

Position: 130

Loop: NM1

Level: Detail

Usage: Optional

Max Use: >1

Purpose: To specify identifying information

Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:

Notes:

Request: Not Used

CE Accept Response: Required for AEP Ohio and FirstEnergy companies; optional for DP&L and Duke Energy Ohio

All other Responses: Not Used

REF~SV~SECONDARY

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>X12 Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification SV Service Charge Number Service Voltage	M ID 2/3
Must Use	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier PRIMARY SECONDARY Actual service voltage transmission value (Ex: 34.5kV)	X AN 1/30

Segment: **REF** Reference Identification (Time of Use)
Position: 130
Loop: NM1 Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes:

There will be one REF~TU segment for each Time Of Use reading (for each meter type for each meter) that will be provided on the 867.
Request: Not Used
CE Accept Response: Required for each meter type for each non-interval meter that is used for billing purposes.
All other Responses: Not Used
REF~TU~51~KHMON
REF~TU~42~K1015

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification TU Trial Location Code Time of Use: Type of metering information that will be sent on the 867 transaction.	M ID 2/3
M	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier NOTE: Other codes (as identified by UIG) can be used to identify quantities measured by the meter, but should not be used to identify tariffed/calculated measurements. 41 Off Peak 42 On Peak 43 Intermediate Peak Shoulder 51 Totalizer	X AN 1/30
M	REF03	352	Description A free-form description to clarify the related data elements and their content Meter Type (see REF~MT for valid codes). "COMBO" is not a valid code for this element.	X AN 1/80

Segment: **REF** Reference Identification (Meter Reading Cycle)
Position: 130
Loop: NM1 Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes:

Meter cycles will be provided on the EDU's website.
CE Request: Not Used
All other Requests: Not Used
CE Accept Response: Required for each meter that is used for billing purposes.
For unmetered services, the billing cycle is provided.
All other Responses: Not Used
REF~TZ~15

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification TZ Total Cycle Number Cycle number when the meter will be read.	M ID 2/3
M	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Metered: Meter Reading Cycle Unmetered: Billing Cycle	X AN 1/30

Segment: **REF** Reference Identification (Congestion/Curtailment Zone)
Position: 130
Loop: NM1 Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes:

Request:	Not Used
CE Accept Response:	Required if available
All other Responses:	Not Used
REF~ZW~SOUTHWEST	

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification ZW Area Congestion/Curtailment Zone - a geographic area where there are transmission constraints related to the delivery of energy.	M ID 2/3
M	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Congestion/Curtailment Zone	X AN 1/30

Segment: **SE** Transaction Set Trailer
Position: 150
Loop:
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Syntax Notes:

Semantic Notes:

Comments: 1 SE is the last segment of each transaction set.

Notes: Request: Required
 Response: Required
 SE~28~00000001

Data Element Summary

	Ref.	Data		
	<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	SE01	96	Number of Included Segments	M N0 1/10
			Total number of segments included in a transaction set including ST and SE segments	
M	SE02	329	Transaction Set Control Number	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	

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